AMPEREX TRANSMITTING TUBE 204-A

R.F. Power Amplifier, Oscillator, Class B Modulator

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

A.F. Power Amplifier and Modulator—Class B

	Maximur Rating per Tube	Тур	ical Op Two Tu	
A.C. Filament Voltage	_	11	11	11
D.C. Plate Voltage	3000	2000	2500	3000
D.C. Grid Voltage	-	60	-80	-100
Load Resistance (ohms per tube)	_	2200	3400	5000
Effective Load Resistance (Plate to Plate) (ohms)		8800	13600	20000
Zero Signal Plate Current (ma.)	_	80	80	80
Peak A.F. Grid to Grid Voltage	_	500	500	500
Max. Signal Plate Current (ma.)	275	500	430	370
Max. Signal Plate Input (watts)	600	1000	1075	1110
Plate Dissipation (watts)	250		_	_
Max. Signal Driving Power (Approx.) (watts	s) —	15	14	11
Max. Signal Plate Power Output (watts)	_	650	740	7 50

R.F. Power Amplifier-Class B-Telephony

(Carrier conditions for use with a maximum modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube		
A.C. Filament Voltage		11	11	
D.C. Plate Voltage	2500	2000	2500	
D.C. Grid Voltage	_	-60	-80	
Peak R.F. Grid Voltage		150	150	
D.C. Plate Current (ma.)	225	165	150	
Plate Input (watts)	400	330	375	
D.C. Grid Current (Approx.) (ma.)	_	5	3	
R.F. Grid Current (amps)	8	_	-	
Plate Dissipation (watts)	250	223	250	
Driving Power (at Peak Modulation) (watts)		10	7	
Plate Power Output (watts)	_	107	125	
Frequency Limit for Above Operation (mc.)	3		_	
F.C.C. Rating for Use in Final Stage of Broadcast Transmitters (watts)	75		-	

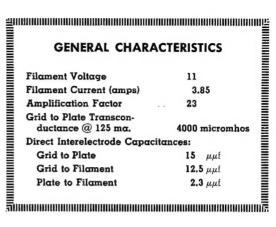


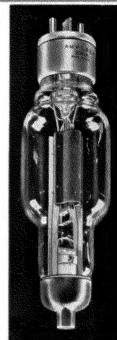
Plate Modulated R.F. Power Amplifier Class C—Telephony

(Carrier conditions for use with a maximum modulation factor of 1.0)

	Maxin Rati per T	ng Ty	pical O	peration Tube
A.C. Filament Voltage		11	11	11
D.C. Plate Voltage	2000	1500	2000	2000
D.C. Grid Voltage	500	-200	250	-250
Peak R.F. Grid Voltage	_	440	460	490
D.C. Plate Current (ma.)	275	250	208	250
Plate Input (watts)	550	375	416	500
D.C. Grid Current				
(Approx.) (ma.)	80	30	16	24
R.F. Grid Current (amps.)	8	-	_	
Plate Dissipation (watts)	167	115	111	135
Driving Power (Approx.)				
(watts)	_	12	7	11
Plate Power Output (watts)	_	260	305	365
Frequency Limit for Above				
Operation (mc.)	3	- 9		11/16
F.C.C. Rating for Use in				
Final Stage of Broadcast				
Transmitters (watts)	250		250	

R.F. Power Amplifier and Oscillator—Class C Telegraphy

	Maximum Rating per Tube	Typical Operation One Tube		
A.C. Filament Voltage	_	11	11	
D.C. Plate Voltage	2500	2000	2500	
D.C. Grid Voltage	-500	-175	-200	
Peak R.F. Grid Voltage	_	425	440	
D.C. Plate Current (ma.)	275	275	275	
Plate Input (watts)	690	550	687	
D.C. Grid Current				
(Approx.) (ma.)	80	30	20	
R.F. Grid Current (amps.)	10		_	
Plate Dissipation (watts)	250	160	187	
Driving Power (Approx.)				
(watts)	norma	12	8	
Plate Power Output (watts)	_	390	500	
Frequency Limit for Above				
Operation (mc.)	3	_	-	



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